

## U.S. Army Facilities



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# ***Air Base Range 8***

## **Aberdeen Test Center**

### **Aberdeen Proving Ground, MD**

**TYPE OF FACILITY:** Outdoor, static

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**PERTINENT TESTING:** Multi-spectral measurements of full-size ground vehicles and surrogates.

**FACILITY DESCRIPTION:** Facility has antenna mounted on a 125-foot tower, two turntables (one fixed and one portable with 70-ton capacities). Calibrated visible, near-IR, mid-IR and far-IR measurements are also available. Depression angles available from 0 to 65 degrees.

**RANGE LENGTH:** 150 feet

**FREQUENCY COVERAGE:** 35, 60, 95, 140, 220 GHz non-coherent; 8-18 GHz ISAR, 35 & 95 GHz ISAR; 35 & 95 GHz monopulse, ISAR; and 95 GHz radiometric imaging.

**POLARIZATION COVERAGE:** HH, VV, HV, VH, circular

**DYNAMIC RANGE:** 69 dB instantaneous, 80 dB ISAR imaging

**RANGE RESOLUTION:** 3 inches

**TARGET SUPPORTS:** Not Applicable

**TARGET LIMITATIONS:** 70 tons

**DATA PROCESSING:** Full processing capability to include RCS-vs-azimuth plots, high range resolution plots and ISAR imagery with background subtraction, histograms and statistics. Processing available with variable bandwidth up to 2 GHz. Fully reduced quick-look data available on-site five minutes after measurement.



**Range 8  
Lookdown  
Tower with  
Test  
Vehicle to  
the Right**

**Close-up  
of M-1  
Tank on  
Range 8  
Turntable**

